CLAIMS

1	1.	A magnetic head comprising:
2		a substrate;

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- a read head being fabricated upon said substrate;
- 4 a P1 pole being fabricated upon said read head;
- 5 a write gap layer being fabricated upon said P1 pole;
 - a P2 pole tip being fabricated upon portions of said write gap layer, wherein said P2 pole tip includes a first portion being comprised of a seed layer material and a second portion being comprised of electroplated material, and wherein said P2 pole tip has a width dimension W that is formed in part from a thickness of said seed layer material portion and in part from a thickness of said electroplated material portion.
 - 2. A magnetic head as described in claim 1 wherein said first portion of said P2 pole tip that is comprised of said seed layer material forms a sidewall of said P2 pole tip.
- 3. A magnetic head as described in claim 1 wherein said seed layer material is formed with a thickness of approximately 50 Å to approximately 500 Å, and said electroplated material is formed with a thickness of approximately 100 Å to approximately 5000 Å.
 - A magnetic head as described in claim 3 wherein said seed layer material thickness is
 approximately 250 Å and said electroplated material thickness is approximately 1500 Å.

- 1 5. A magnetic head as described in claim 3 wherein said seed layer material is comprised of
- 2 NiFe and said electroplated material is comprised of NiFe.
- 1 6. A hard disk drive comprising:
- at least one hard disk being fabricated for rotary motion upon a disk drive;
- at least one magnetic head adapted to fly over said hard disk for writing data on said hard
- 4 disk, said magnetic head including:
- 5 a substrate;

-13

- a read head being fabricated upon said substrate;
 - a P1 pole being fabricated upon said read head;
 - a write gap layer being fabricated upon said P1 pole;
 - a P2 pole tip being fabricated upon portions of said write gap layer, wherein said P2 pole tip includes a first portion being comprised of a seed layer material and a second portion being comprised of electroplated material, and wherein said P2 pole tip has a width dimension W that is formed in part from a thickness of said seed layer material portion and in part from a thickness of said electroplated material portion.
- 1 7. A hard disk drive as described in claim 6 wherein said first portion of said P2 pole tip that
- 2 is comprised of said seed layer material forms a sidewall of said P2 pole tip.
- 1 8. A hard disk drive as described in claim 6 wherein said seed layer material is formed with
- a thickness of approximately 50 Å to approximately 500 Å, and said electroplated material is
- 3 formed with a thickness of approximately 100 Å to approximately 5000 Å.

- A hard disk drive as described in claim 8 wherein said seed layer material thickness is 9. 1
- approximately 250 Å and said electroplated material thickness is approximately 1500 Å. 2
- A hard disk drive as described in claim 8 wherein said seed layer material is comprised of 10. 1
- NiFe and said electroplated material is comprised of NiFe. 2
- A method for fabricating a magnetic head, comprising the steps of: 1 11.
- fabricating a read head upon a substrate; 2
- 3 fabricating a P1 pole upon said read head;
- 7 4 5 5 6 7 7 7 7 8 9 9 fabricating a write gap layer upon said P1 pole;
 - fabricating a block of material upon said write gap layer, said block of material having a sidewall disposed proximate a P2 pole tip location;
 - fabricating a seed layer upon said sidewall;
 - electroplating P2 pole tip material upon said seed layer, whereby a P2 pole tip is formed having a width W that is comprised of a thickness of said seed layer material and a thickness of said electroplated material;
 - fabricating an induction coil proximate said P2 pole tip; 11
 - fabricating a P3 pole above said induction coil in magnetic interconnection with said P2 12 pole tip; and 13
 - fabricating an encapsulation layer above said P3 pole. 14
 - A method for fabricating a magnetic head as described in claim 11 wherein said seed 1 12.
 - layer is fabricated to a thickness of approximately 50 Å to approximately 500 Å. 2

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- A method for fabricating a magnetic head as described in claim 11 wherein said 1 13.
- electroplated material is fabricated to a thickness of approximately 100 Å to approximately 5000 2
- Å. 3
- A method for fabricating a magnetic head as described in claim 11 wherein said seed 1 14.
- layer is fabricated to a thickness of approximately 50 Å to approximately 500 Å, and wherein 2
- said electroplated material is fabricated to a thickness of approximately 100 Å to approximately 3
- 5000 Å. 4
 - A method for fabricating a magnetic head as described in claim 14 wherein said seed 15.
 - layer is fabricated to a thickness of approximately 250 Å and said electroplated material is
- fabricated to a thickness of approximately 1500 Å.
- A method for fabricating a magnetic head as described in claim 11 wherein said P2 pole 16.
 - tip is fabricated within a P2 pole tip trench having width that is wider than said width W of said
- **=** 3 P2 pole tip.
 - A method for fabricating a magnetic head as described in claim 11 wherein said block of 1 17.
 - material is removed from said write gap layer following said electroplating of said P2 pole tip 2
 - material, and said P1 pole is notched in an ion milling step. 3

- 1 18. A method for fabricating a magnetic head as described in claim 14, wherein said seed
- 2 layer is comprised of NiFe and said P2 pole tip material that is electroplated upon said seed layer
- 3 is comprised of NiFe.